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ABSTRACT

This book is a guide to educating and nurturing children with mathematical talent. Chapter 1 presents and refutes 12 myths about mathematically talented students, especially the idea that it is best not to deviate from regular programming. The second chapter is a guide for parents in their efforts to advocate for their child in the regular school setting and is focused on interactions between parents and educators. Chapter 3 is on assessment and stresses the value of a range of tests when generating programming recommendations. Chapter 4 describes a system for precisely determining where mathematically talented students should begin instruction. The following chapter is about elementary level talent searches, especially the use of above-level testing to guide program placement and programming. Chapter 6 looks at programs currently available for this population, ranging from enrichment to ability grouping to radical acceleration. Chapter 7 provides an extensive review of curricula and materials, while chapter 8 discusses issues confronting teachers expected to work with mathematically talented students. The last chapter offers case studies illustrating the application of the book's concepts. Also included are a resource list, a glossary, and an appendix of sample Mathematical Olympiad problems. (Contains approximately 250 references.) (DB)

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